

V. CONSTANTINE.
 PHONOGRAPH STOP.
 APPLICATION FILED NOV. 21, 1914.

1,189,063.

Patented June 27, 1916.

Fig. 1.

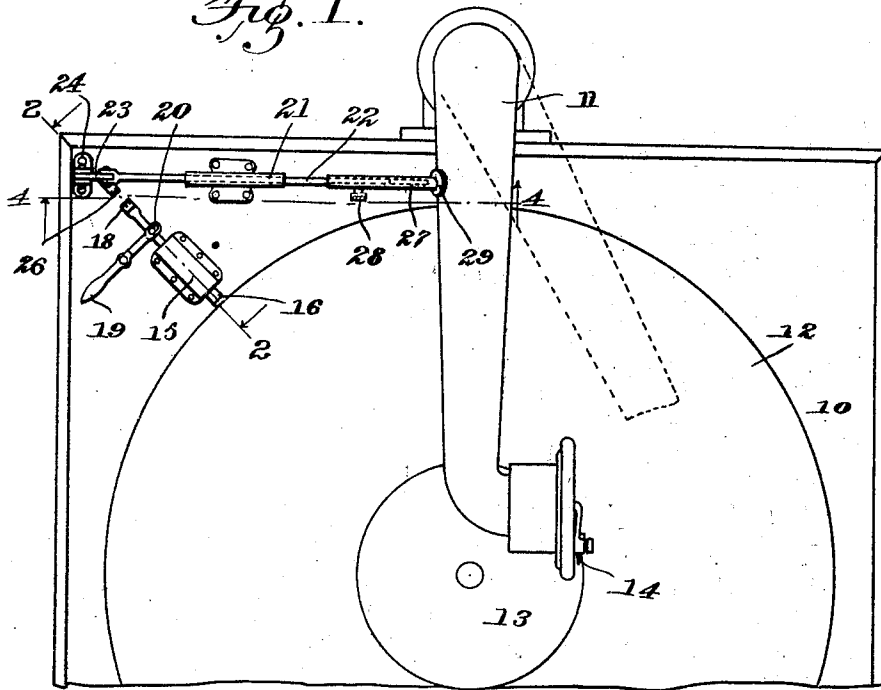


Fig. 2.

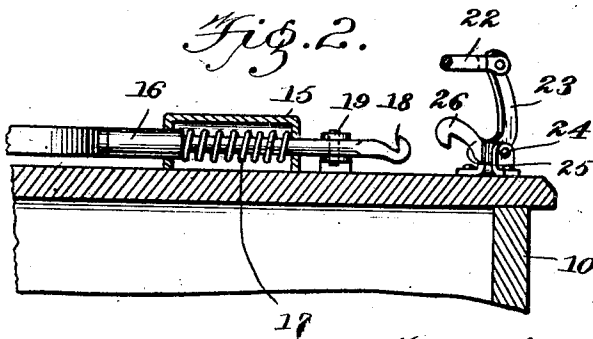


Fig. 3.

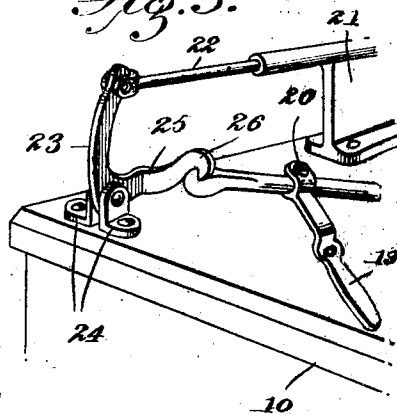
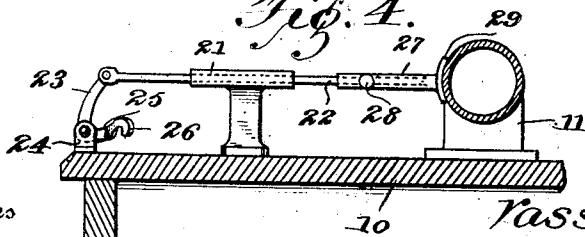


Fig. 4.



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VASSIL CONSTANTINE, OF PHILADELPHIA, PENNSYLVANIA.

PHONOGRAPH-STOP.

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To all whom it may concern:

Be it known that I, VASSIL CONSTANTINE, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in Phonograph-Stops, of which the following is a specification.

The invention relates to phonographs, and has for an object to provide an automatic stop therefor.

The invention contemplates, among other features, the provision of a simple device that can be readily applied to the various types of talking machines or phonographs now generally used, particularly those which contemplate the use of a disk record, the device being readily adjusted so that when a selection is played upon the record and the end of the selection is reached the rotation of the table will be automatically stopped.

In the further disclosure of the invention reference is to be had to the accompanying drawings, constituting a part of this specification, in which similar characters of reference denote corresponding parts in all the views, and in which:

Figure 1 is a fragmentary plan view of a phonograph showing my device applied thereto, the full lines showing the tone arm in its final position and the dotted lines in playing position; Fig. 2 is an enlarged vertical sectional view taken on the line 2-2 in Fig. 1; Fig. 3 is a fragmentary perspective view of a detail portion of the device; and Fig. 4 is a vertical sectional view taken on the line 4-4 of Fig. 1.

Referring more particularly to the views, I disclose a phonograph or talking machine having the usual tone arm 11 mounted to swing horizontally thereon and operate upon a record 12 carried by a table 13, revolvable by suitable mechanism forming a part of the talking machine and whereby rotation is imparted to the record so that a stylus 14 on the tone arm operating from the outer edge of the record toward the inner edge thereof will travel in the grooves of the record to produce the sounds in the usual manner.

A casing 15 supported on the top of the talking machine 10 and arranged to slide through the said casing has a stop member 16 adapted to have its inner end engage the table 13, said stop member being actuated by

a spring 17 contained in the casing 15 and having its other end terminating in a suitable hook 18, an operating lever 19 being pivoted upon the top of the talking machine 10 through the medium of a pin and slot connection 20 having connection with the stop member 16 as shown.

A sleeve 21 is supported on the top of the talking machine and mounted to slide therein is a rod 22 having its inner end pivoted to a bell crank lever 23 mounted to swing upon suitable bearings 24 and having an arm 25 thereof terminating in a hook 26 for engagement with the hook 18 on the stop member 16, as shown in Fig. 3.

The free end of the rod 22 carries an adjustable tubular member 27 which is arranged to slide upon the rod and can be secured rigidly thereon by a suitable set screw 28, said adjustable tubular member 27 having its free end provided with a suitable head 29, the face of which is curved to conform to the curvature of the tone arm 11.

In the operation of the device, we will assume that the stop member 16 engages the periphery of the table, due to the action of the spring 17, the hook 19 at this time being out of engagement with the hook 26. The desired record having been placed upon the table the tone arm is now swung inwardly until the stylus 14 lies in the innermost groove of the record and when in this position the tubular member 27 is advanced or retreated upon the rod until the head 29 of the member 27 abuts against the face of the tone arm. The member 27 is now secured rigidly upon the rod 22 by the set screw 28 and the tone arm is now swung outwardly until the stylus 14 operates in the first or initial groove of the record. Now by operating the lever 19 the stop member 16 will be moved out of engagement with the periphery of the table and in so doing the hook 19 will be engaged with the hook 26, it being readily seen by referring to the views that the arm 25 of the bell crank lever 23 extends at an angle to the other arm of the bell crank lever so that the action of the spring 17 will not tend to exert a pull upon the rod 22. The table being now in operation, the tone arm 11 will swing inwardly as the stylus 14 advances in the grooves of the record and when the stylus reaches the inner groove, it will be clearly seen that the tone arm will engage the head 29 of the member 27, thus exerting a push upon the rod 22 and

causing the bell crank lever 23 to be swung so that the arm 25 will rise and result in the disengagement of the hook 26 with the hook 19, thus releasing the stop member 16 so that it will be subjected to the action of the spring 17 and cause its free end to be moved into and engage the periphery of the table to act as a brake upon the table and stop its rotation.

10 From the foregoing description it will be clearly seen that the device described is of a simple construction, consists of few parts which can be cheaply manufactured and that the device can be readily applied to
15 various makes of talking machines or phonographs using disk records.

Having thus described my invention, I claim:

In a phonograph stop, a vertically dis-

posed bell crank lever pivoted to swing upon 20 the phonograph, a hook formed on one arm of the bell crank lever at right angles thereto, a bearing spaced from the bell crank lever and having a guide sleeve, an adjustable rod pivotally connected to the other 25 arm of the bell crank lever and slidable through the sleeve and adapted to be moved by the reproducer arm of the phonograph, and a brake adapted for engagement with the turn table of the phonograph and hav- 30 ing a hooked end for engagement with the hook on the bell crank lever.

In testimony whereof I affix my signature in presence of two witnesses.

VASSIL CONSTANTINE.

Witnesses:

HELEN G. DALEY,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."